* RE: Walrus data‏

To see messages related to this one, [group messages by conversation](http://sn105w.snt105.mail.live.com/mail/).

[http://sn105w.snt105.mail.live.com/mail/clear.gif](http://sn105w.snt105.mail.live.com/mail/)

15:19

[Reply ▼](http://sn105w.snt105.mail.live.com/mail/)

* [Reply](http://sn105w.snt105.mail.live.com/mail/)
* [Reply all](http://sn105w.snt105.mail.live.com/mail/)
* [Forward](http://sn105w.snt105.mail.live.com/mail/)
* [Delete](http://sn105w.snt105.mail.live.com/mail/)
* [Junk](http://sn105w.snt105.mail.live.com/mail/)
* [Mark as unread](http://sn105w.snt105.mail.live.com/mail/)
* [Mark as read](http://sn105w.snt105.mail.live.com/mail/)
* [Delete all from sender](http://sn105w.snt105.mail.live.com/mail/)
* [Print message](http://sn105w.snt105.mail.live.com/mail/)
* [View message source](http://sn105w.snt105.mail.live.com/mail/)
* [Show message history](http://sn105w.snt105.mail.live.com/mail/)
* [Hide message history](http://sn105w.snt105.mail.live.com/mail/)
* [Show details](http://sn105w.snt105.mail.live.com/mail/)
* [Hide details](http://sn105w.snt105.mail.live.com/mail/)

Attachment

[http://secure.wlxrs.com/$live.controls.images/is/invis.gifStewart, Rob](http://sn105w.snt105.mail.live.com/mail/)

* http://secure.wlxrs.com/$live.controls.images/is/invis.gif

Robert.EA.Stewart@dfo-mpo.gc.ca

Stewart, Rob

Robert.EA.Stewart@dfo-mpo.gc.ca

* [Send email](http://mail.live.com/?rru=compose%3faction%3dcompose%26to%3dRobert.EA.Stewart@dfo-mpo.gc.ca&ru=http%3A%2F%2Fsn105w.snt105.mail.live.com%2Fdefault.aspx%3Fwa%3Dwsignin1.0)
* [Find email](http://sn105w.snt105.mail.live.com/mail/)

[Add to contacts](http://sn105w.snt105.mail.live.com/mail/)

To Joe Hoffman, David Coltman, Erik W. Born, Andersen, Liselotte W.

|  |  |
| --- | --- |
| From: | **Stewart, Rob** (Robert.EA.Stewart@dfo-mpo.gc.ca) |
| Sent: | 13 October 2011 15:19:44 |
| To: | Joe Hoffman (j\_i\_hoffman@hotmail.com) |
| Cc: | David Coltman (dcoltman@ualberta.ca); Erik W. Born (ewb@mail.ghsdk.dk); Andersen, Liselotte W. (lwa@DMU.dk) |

Hotmail [Active View](http://g.live.com/3WCEN-ALL/1?ErrorCode=202&ErrorId=202&Partner=0)[http://gfx2.hotmail.com/mail/w4/pr04/ltr/clear.gif](http://sn105w.snt105.mail.live.com/mail/)

2 attachments (total 856.3 KB)

Download LAKE AGAS...pdf (63.9 KB)

LAKE AGAS...pdf

[Download](http://sn105w.snt105.mail.live.com/mail/" \o "Download LAKE AGAS...pdf (63.9 KB))(63.9 KB)

Download Shafer_et...pdf (792.5 KB)

Shafer\_et...pdf

[Download](http://sn105w.snt105.mail.live.com/mail/" \o "Download Shafer_et...pdf (792.5 KB))(792.5 KB)

[Download all as zip](http://sn105w.snt105.mail.live.com/mail/)

Good morning Joe,

It sure looks like you tried to send it earlier but (a) I looked and can find no record and (b) I really like the idea and wouldn't (maybe) have forgotten. THEY changed my eddress a while ago and your message may have got lost in space.

This is very neat and I'd be happy to share our data.

I can't answer most of your questions about bottle-necks but can offer a possible hypothesis.

I have done some work with Liselotte Wesley-Andersen in Denmark using some shared samples from Southeast Baffin Island (SEB) and West Greenland (WG). She found a hint of a bottle-neck that I thought came close enough to the emptying of Lake Agassiz to merit investigation. ([http://en.wikipedia.org/wiki/Lake\_Agassiz](http://en.wikipedia.org/wiki/Lake_Agassiz" \t "_blank) ; [http://www.newscientist.com/article/mg20427344.800-mini-ice-age-took-hold-of-europe-in-months.html](http://www.newscientist.com/article/mg20427344.800-mini-ice-age-took-hold-of-europe-in-months.html" \t "_blank)). Such a large and redid influx of freshwater must have had some pretty serious ecological effects, some of which might relate to walrus (drop in bivalve pops from freshwater or sedimentation, change in ice regimes, change is sea level...). How about something like: 'Given the massive maritime upheaval associated with the rapid and voluminous emptying of Lake Agassiz, we expect to detect evidence of a genetic bottleneck in Atlantic walrus occupying WG and Canadian waters'? (The purple prose might require a bit of word-smithing.)

We were, at the time, writing a paper with several others to look at walrus stock ID in WG and broadening the scope was inappropriate, so it didn't go anywhere. That paper is now destined for the same NAMMCO Scientific Series publication as is the paper I've done with Dave's lab (draft attached - submitted and in peer review at the moment I believe). I haven't seen the manuscript recently but I doubt Liselotte has revised it to follow up on my speculation because it is still irrelevant to that paper. However, she, in collaboration with Erik Born, has a large data set (the one that got me thinking about this) and I have copied them in case they might be interested in sharing. They will also have a complete list of other partners who may have relevant data. If all this comes to pass, we will have to remove duplicates because some SEB samples were shared between us.

A possibly complicating caveat: since I broached the subject with Liselotte in 2009, I would have to honour that offer as having precedence over your request, if she has been investigating Agassiz/bottleneck/Baffin Bay-Davis strait using samples with which I am involved. If she has, perhaps your Bayes approach is different enough that our data could be used for both. I suspect, since I haven't heard anything, that this is not really an issue.

Erik would be a good person to talk to about the history of exploitation in WG too. I have a couple of folks working on historic catches in Canada (for the NAMMCO book) but have not yet seen a draft to be able to tell you more. And that is likely a first step in someone else re-creating pre-exploitation population estimates. We hope to have current population estimates for some Canadian stocks in the near future but a Canada-wide population estimate will have to be cobbled together from them and speculative estimates for other stocks. I'd be happy to help with that when the time comes (i.e. when you know you what your walrus data base is). Of course we have even less idea about population sizes >10,000 ybp.

I hope this helps.

Rob

*~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~*   
*Dr. Robert E. A. Stewart  
Central & Arctic Region /  
Région du Centre et de l’Arctique  
Fisheries and Oceans Canada / Pêches et Océans Canada  
Freshwater Institute  
501 University Crescent  
WINNIPEG, MB  
R3T 2N6  
Canada*   
*telephone 204 983 5023  
facsimile / télécopieur 204 984 2403*